

TROJANOWSKI, Andrzej; DZIACZKOWSKI, Igor

Further observations on primary suturing of the common bile duct. Pol. przegl. chir. 35 no.7/8:808-811 '63.

1. Z Oddziału Chirurgicznego Instytutu Hematologii i z Oddziału Chirurgicznego Lecznicy Ministerstwa Zdrowia i Opieki Społecznej
Ordynator: doc. dr A. Trojanowski.

(COMMON BILE DUCT) (SURGERY, OPERATIVE)
(JAUNDICE) (CHOLELITHIASIS)
(PANCREATITIS) (PERITONITIS)
(SUTURE TECHNIQS)

TRCJANOWSKI, Andrzej, doc. dr. med. [deceased] ORSZULOK, Jan, ZIMSKI, Jan

Analysis of 773 cases of burns treated at the Surgical Clinic
of the Institute of Hematology in Warsaw during 1962-1963.
Pol. tyg. lek. 20 no.11:378-381 15 Mr'65.

1. Z Kliniki Chirurgicznej Instytutu Hematologii w Warszawie
(Kierownik: doc. dr. med. Andrzej Trojanowski [deceased] i prof.
dr. med. Witold Rudowski.

TROJANOWSKI, Andrzej [deceased]; KWIETNIAK, Jan Kazimierz; PLEWINSKI, Gustaw

Results of surgical treatment of gastric and duodenal ulcer in
persons over 60 years old. Pol. przegl. chir. 37 no.3:216-221
Mr '65.

1. Z Klinicznego Oddziału Chirurgicznego Instytutu Hematologii
w Warszawie (Kierownik: doc. dr. A. Trojanowski [deceased]).

TROJANOWSKI, Andrzej, doc. dr. med. [deceased]; PLEWINSKI, Gustaw.

Block of the vomitory reflex. Pol. tyg. lek. 20 no.9:303-304
1 Mr'65.

1. Z Klinicznego Oddziału Chirurgicznego Instytutu Hematologii
w Warszawie (kierownik: doc. dr. med. A. Trojanowski [deceased]).

GMURZYNSKI, Zbigniew; TROJANOWSKI, Andrzej, doc. dr. med. [deceased];
PLEWINSKI, Gustaw

Control of blood transfusion reactions. Pol. tyg. lek. 20 no.10:
353-354 8 Mr '65

1. Z Klinicznego Oddziału Chirurgicznego Instytutu Hematologii
w Warszawie (Kierownik: doc. dr. med. A. Trojanowski [deceased]).

TROJANOWSKI, Andrzej; DZIACZKOWSKI, Igor

Primary suture of the common bile duct. Pol. przegl. chir.
36 no.3:417-423 Mr '64.

1. Z Oddzialow Chirurgicznych Instytutu Hematologii i Lecznicy
Ministerstwa Zdrowia i Opieki Spolecznej (Kierownik: doc. dr A.
Trojanowski).

MARCISZEWSKI, Henryk; TROJANOWSKA, Zofia; SPYCHALA, Stanislaw;
POGORZELSKA, Jadwiga

Polarographic and spectrophotometric determination of pseudo-ionone
in hexahydropseudo-ionone in ultraviolet and infrared. Chem anal
8 no.6:939-944 '63.

1. Department of Analytical Chemistry, Pharmaceutical Institute,
Warsaw.

TROJANOWSKI, G.

In order to make the highway pirates disappear.

P. 9 (ZOLNIERZ POLSKI) (Warszawa, Poland) No. 31, Dec. 1957

SO: Monthly Index of East European Accessions (EEAI) LC Vol. 7, No. 5. 1958

TROJANOWSKI, Henryk

Some problems concerning plant protection in Switzerland. Postępy nauk
roln 8 no.4:105-120 J1-Ag, '61.

1, Instytut Ochrony Roslin, Poznan.

TROJANOWSKI, Jerzy

Biogenesis of humine compounds. Postepy biochem. 7 no.4:543-560
'61.

(HUMIC ACIDS chem)

TROJANOWSKI, Jerzy

The problem of humus fractioning with particular regard to chromatography.
Acta agrobotan 9 no.1:85-96 '60.

TROJANOWSKI, Jerzy

Biological role of plant catecholase. Postepy biochem. 9
no.2:187-200 '63.

(OXIDOREDUCTASES) (PLANTS)

TROJANOWSKI, JERZY

E-3

POLAND/*Analytical Chemistry - Analysis of Organic Substances.*

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14251.

Author : Trojanowski Jerzy

Inst : M. Curie-Sklodowska University

Title : Cellulose Chromatography of Hymatomelanic Acids.

Orig Pub: Ann. Univ. M. Curie-Sklodowska, 1957, C10, No 11, 275-294.

Abstract: To isolate hymatomelanic acids (HA) from raw material, bitumen is first isolated by action of a mixture of benzene + ethanol, and Ca and Fe are removed by washing with 0.2 N solution of HCl. Then 20 liters ethanol are added per 1 kg of material and HA are extracted at room temperature. Purification is effected by precipitating HA with calcium acetate at pH 6.8, and removing the Ca from the precipitate by washing with 0.5 N HCl and water, with the use of centrifugation. The residue of HA is dissolved in acetone (I) and insoluble admixtures are removed by centrifugation. The resulting solu-

Card : 1/2

TROJANOWSKI, J.

Chromatography of the hymatomelanic acids on cellulose. p. 275.
(ANNALES. SECTIO C: BIOLOGIA. Vol 10, no. 1/15, 1955 (published 1957) Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) IC, Vol. 6, No. 9 Sept. 1957 Uncl.

TRCJANOWSKI, Janusz; KOSCIANEK, Kazimierz (Warszawa)

Shavings concrete in building. Przegl budowl i bud mieszk 35
no. 12:646-649 '63.

Monolithic building made in forms of the Wlodzimierz Kolodko
system. Ibid.:649-653

TROJANOWSKI, J.

Insect tyrosinase and its comparison with vegetable tyrosinase. Acta
physiol. polon. 8 no.3:553-554 1957.

1. Z Instytutu Biochemii i Biofizyki PAN w Warszawie. Kierownik:
prof. dr J. Heller.

(OXIDASES,

tyrosinase from insects & plants, comparison (Pol))

TROJANOWSKI, Jerzy

Cu-containing plant oxidases. Postepy biochem. 10 no.1:93-118
'64.

TROJANOWSKI, Jerzy; LOBARZEWSKI, Jerzy

The action of oxidases on proteins. Postepy biochem. 9 no.3:
343-351 '63.

(PEROXIDASES) (PROTEIN METABOLISM)
(OXIDOREDUCTASES)

TROJANOWSKI, Kazimierz

Determination of the time coefficient c on the basis of periodic observations of settling points by the method of the smallest squares. Geodezja Krakow no.5:21-38 '64.

Influence of deformations of the orientation figure caused by the action of air against the shaft plumbets on the accuracy of the Paus method. Ibid.:79-126

1. Szombierki Mine, Bytom.

DRUSHCHITS, V.V.; OLENIN, V.B.; SOKOLOV, B.A.; TROKHOVA, A.A.

New data on the lower Cretaceous stratigraphy of central Abkhazia.
Izv.vys.ucheb.zav.; geol.i razv. 2 no.8:37-42 '59.

(MIRA 13:4)

1. Moskovskiy gosudarstbenny universitet.
(Abkhazia--Geology, Stratigraphic)

TROJANOWSKI, J.

Partial purification of tyrosinase from the pupae of *Sphinx pinastri*.
Acta biochim. polon. 5 no.1:59-66 1958.

1. Z Instytutu Biochemii i Biofizyki PAN Dyrektor: prof. dr Jozef Heller.
(OXIDASES, determination
tyrosinase in moth pupae, analysis (Pol))
(MOTHS,
Sphinx pinastri, isolation & analysis of tyrosinase from
pupae (Pol.))

TRCJANCWSYI, J.

TRCJANCWSYI, J. Technical progress in the Swedish fibertboard industry. p. 304.

Vol. 6, No. 11, Nov. 1955.

PRZEMYSŁ PRZEMNY.

TECHNOLOGY

Warszawa, Poland

So: East European accession, Vol. 5, No. 5, May 1956

TROJANOWSKI, J.

POLAND/Analytical Chemistry - Organic Analysis.

E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71285

Author : Trojanowski, Jerzy

Inst : -

Title : Conductometric and Potentiometric Analysis of Certain Humus Fractions

Orig Pub : Ann. Univ, Curie-Sklodowska, 1957 (1958), C 12, No 1-13, 183-204

Abstract : Hematomelanic(?) acids (HA) were separated chromatographically and their equivalent weight (EW) was determined. The bitumen was removed with petroleum ether from the samples of the six-year-old compost, the tree leaves, and the lowland peat, then Ca and Fe ions were removed by washing with 0.2 N.HCl. The HA were extracted with 95% alcohol at room temperature and precipitated at pH 6.8-6.9 by adding Ca acetate. The precipitate was centrifuged, washed with

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POLAND/Analytical Chemistry - Organic Analysis.

E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71285

0.5 N.HCl and water and dissolved in acetone (I). 10 ml solution containing 4 mg dry substance in 1 ml, was chromatographed using the column filled with 30 g cellulose. The fractions were separated with the mixture of $N-C_4H_9OH$ (saturated with water) (II), I, and 0.1 N.HCl (III) (12:12:0.5). The zones formed, distinguishable in UV light, were eluted with I and water, individual fractions were chromatographed on Whatman paper No 1 with the mixture I:II:III (12:12:1.5), and R_f values were determined. The samples of the fractions obtained in column chromatography (40-80 mg of substance) were dissolved in 5-10 ml of I, mixed with 60 ml double-distilled water containing no CO_2 , and with 0.5 ml of III, and then titrated potentiometrically or conductometrically with 0.1 N.Ba(OH)₂ solution while passing N_2 . EW of GA fractions is from 214 to 618. HA contain amino acids

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POLAND/Analytical Chemistry - Organic Analysis.

E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71285

(test with ninhydrin after hydrolysis). -- N.
Turkevich

Card 3/3

END

P O L .

✓ Biological activity of some humic fractions. J Trojanowski (*Acta Soc. bot. polon* 1954 E3, 143—160) —Most humic fractions tested did not stimulate plant growth. Fractions extracted from peat checked the growth of stems and roots and lowered the redox potential. SOILS & FERT. (A G P)

LEONOWICZ, Andrzej; TROJANOWSKI, Jerzy

Exoenzymes in fungi degrading lignin. I. *Pholiota mutabilis*.
Acta microbiol. Pol. 14 no.1:55-61 '65.

1. From the Department of Biochemistry, Marie Curie-Sklodowska
University, Lublin.

TROJANOWSKI, Kazimierz, dr. inż.; WAJDECKO, Augustyn, inż.; PYTLARZ,
Tadeusz, mgr. inż.

Development of ground deformation in time resulting from working
a shallow seam. Przegl gorn 20 no.11:547-552 N '64.

TROJANOWSKI, Kazimierz, dr inz.

Method of effective determination of accidental and systematic errors in length measurements. Glow inst gorn prace no.343/351: 21-28 '64.

Analysis of the fundamental sources of errors found in depth measurements of shafts. Ibid.:29-38

1. Central Mining Institute, Katowice.

TROJANOWSKI, Kazimierz, dr. inż.

Computation of the amount of surface deformation. Rudy i metale
10 no.1:20-22 Ja '65.

TROJANOWSKI, Mirosław, H.

Polish National Insurance and the 27th International Fair
in Poznań. Przegl techn 79 Special issue:386-387 Je '61.

TROMANOWSKA, Mieczysława

Evaluation of selected methods for the determination of ethyl alcohol in cadaveric blood. Acta pol. pharm. 21 no.2: 183-187 '64.

1. Z Zakładu Medycyny Sądowej Akademii Medycznej w Lublinie (Kierownik: prof. dr. W. Dzulyński).

ZEBROWSKI, Tadeusz; PIENIAZEK, Janina; ~~TROJANOWSKI, Stanislaw~~; BOROWIECKA, Anna

Experimental studies of anti-tuberculous effect of phthivaside. Polski tygod. lek. 12 no.36:1390-1393 2 Sept 57.

1. Z Centr. Labor. Panstw. Zesp. San.-Pwgr. w Otwocku; kier. labor.: dr med. Tadeusz Zebrowski; dyrektor zespolu: dr W. Zajaczkowski. Adres: Otwock, ul. Reymonta 53 m. 5.

(ISONIAZID, rel. cpds.

N-(4-hydroxy-3-methoxy) benzal isonicotinic acid hydrazone, tuberculostatic eff. in vitro (Pol))

(MYCOBACTERIUM TUBERCULOSIS, eff. of drugs on same)

ZEBROWSKI, Tadeusz; TROJANOWSKI, Stanislaw; ZEBROWSKI, Leon; PACZKOWSKI, Alfred; PIENIAZEK, Janina; PLEWIK, Wanda; BOROWIECKA, Anna

Early results of isonicotinic acid hydrazide of the most severe forms of pulmonary tuberculosis. Polski tygod. lek. 9 no.15:449-454 12 Apr 54.

1. Z Panstwowego Zespolu Sanatoriow Przeciwgruzliczych w Otwocku; wicedyrektor lekarski prof. dr med. J.Stopczyk, z Centralnego Laboratorium Zespolu; kierownik dr med. L.Zebrowski i z Centralnej Pracowni Radiologicznej Zespolu, kierownik: dr med. St.Trojanowski.

(TUBERCULOSIS, PULMONARY, therapy,

isoniazid)

(NICOTINIC ACID ISOMERS, therapeutic use, isoniazid in pulm. tuberc.)

TROJANOWSKI, Stanislaw; OWAJANY, Wieslaw

Latent duodenal diverticulum complicated by tuberculous extra-peritoneal lymphadenitis. Polski przegl.radiol.19 no.3:147-153 '55.

1. Z Pracowni Radiologicznej Panstwowego Szpitala Klinicznego nr 3 we Wrocalwiu.Kierownik: dr St. Trojanowski i z I Kliniki Chirurgicznej A.M. we Wrocalwiu Kierownik: doc.K. Gyzewski, St.Trojanowski, Warszawa, ul.Nowomiejska 5 m. 3.

(DUODENUM, diverticular,

with tuberc.extra-peritoneal lymphadenitis)

(TUBERCULOSIS, LYMPH NODE, complications,

duodenal diverticulum in extra-peritoneal lymphadenitis)

TROJANOWSKI, T.

Removal of air from hot-water heating installations. P. 126

GAZ, WODA I TECHNIKA SANITARNA. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Sanitarnych, Ogrzewictwa i Gazownictwa) Warszawa, Poland.
Vol. 33, no. 3, March 1959

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 7, July 1959

Incl.

TROJANOWSKI, Wieslaw

Technology of the spark gap for high-power ignition circuits.
Przegl elektroniki 3 no.6:338. Je '62.

1. Przemyslowy Instytut Elektroniki, Warszawa.

TRJJEK, N.

Effect of changes in wholesale prices on economic indexes in enterprises.
p. 254. (SALAR A KERANIK, Vol. 7, No. 9, Sept 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

TROJEK, M.

TROJEK, M. Plan for the year 1954 and the struggle against economic losses.
p. 3.

Vol. 4, no. 1, Jan. 1954
SKLAR A KERAMIK
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accessions, Vol. 5, no. 5, May 1956

TROJEK, M.

The Plan in 1954 and our struggle to economize raw material. p.4. (Textil, Praha, Vol. 9, no. 1, Jan. 1954)

SO: Monthly list of East European Accessions (EEAL), LC Vol 4, No. 6, June 1955, Uncl

L 3325-66 ENT(t)/EMP(t)/EMP(h) JD
ACC NO: AP5027870

CZ/0034/65/000/002/0080/0086

AUTHOR: Trojka, Drohomir; Pindur, Edvard (Engineer)

TITLE: Efficiency of the Klement Gottwald Iron Works Bending Installation

SOURCE: Hutnicke listy, no. 2, 1965, 80-86

TOPIC TAGS: sintering, metallurgic machinery

ABSTRACT: The article gives an evaluation of a prototype installation for the blending of raw materials for the sintering plant. It is covered by a Czechoslovak patent. Its parts are a feeding and discharge conveyer in two independently operating units, a stowing machine and a bucket loader. Individual ore grades are deposited in horizontal coherent layers along the stockpile area so that the sintering plant charge consists of only one component. Orig. art. has 4 formulas, 3 figures, 4 tables and 6 graphs.

ASSOCIATION: VZKG, Ostrava

SUBMITTED: 00

ENCL: 00

SUB CODE: IE, MM

NO REF SOV: 000

OTHER: 000

JPRS

core sintering

Card 1/1 DP

I 21361-66 EJP(t)/EWA(h) IJP(c) JD SOURCE CODE: CZ/0034/65/000/003/0531/0540
ACC NR: AP6010886

AUTHOR: Trojka, Drahomir

ORG: VZKG, Ostrava

TITLE: Efficiency of homogenizing of fine-grained ores in the sintering plant of the VZKG iron and steel works

SOURCE: Hutnické listy, no. 8, 1965, 531-540

TOPIC TAGS: sintering, pig iron, coke, iron, silicon dioxide

ABSTRACT: A detailed analysis of the performance of the installation is made; methods of measurements, sampling technique, and the frequency of taking of samples are described. Taking of samples from a pile of materials is discussed; the timing and location of the sampling points is evaluated. The ores of various grades differ widely in their contents of Fe and SiO₂; therefore good homogenizing of the ore pile is of greatest importance. Differences of +1% in the contents of the two components occur by segregation in the pile. The new installation provides a material where 85% of the samples do not differ by more than 0.5% in the content of the two components. This degree of homogenization will save 30 - 60 kg of coke per ton of pig iron compared to previous results. Orig. art. has: 10 figures, 3 formulas, and 3 tables. [JPRS]

SUB CODE: 11 / SUEN DATE: none / ORIG REF: 001 / OTH REF: 001
SOV REF: 001
Card 1/1

UDC: 669.162.1

TRAJNA, M.
CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour : RZhKhim., No 10, 1958, 32407

Author : Milan Trajna, Jaromir Hubaok

Inst : Not given

Titlo : Some New Derivatives of β , β , β -Trichloro- α , α -bis-
-(4-oxyphenyl)-Ethano.

Orig Pub : Chem. listy, 1957, 51, No 4, 752-755; Sb. ohkhozl. khim.
rabot, 1957, 22, No 4, 1162-1166.

Abstract : Substances of the general formula $(4\text{-HO-3-R-5-R}^1\text{C}_6\text{H}_2)_2\text{-CHCCl}_3$ (I) were synthesized during the search for new insecticides. I ($\text{R} = \text{R}^1 = \text{H}$) (Ia) is prepared by the condensation of 0.604 mole of $\text{CCl}_3\text{CHO} \cdot \text{H}_2\text{O}$ with 1.211 mole of phenol in glacial CH_3COOH (40 mlit) + concentrated H_2SO_4 (165 g) in 2 hours at 20° , yield 92.8%, melting point 202° (not corrected) (from CH_3OH -benzene, 2 : 3) (Elbs K., J. prakt. Chem., 1893, 47, 44). 0.2 mole of Ia is sulfonated

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CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry. G-2

Chem. Jour : Ref Zhur - Khim., No 10, 1958, No 32407

with concentrated H_2SO_4 (270 g) at 60° in the duration of 2 hours, diluted with water, and I is received ($R = H$, $R' = SO_3H$) (Ib), yield 71%, dissociation point 134° (from azotropic HCl); Na and Ba salts were also received. At the nitration of 0.01 mole of Ib with the solution of $NaNO_3$ (0.02 mole) in 25 mlit of water and concentrated H_2SO_4 (20 mlit) in the duration of 12 hours at 20° , I ($R = NO_2$, $R' = SO_3H$) (Ic) is received, yield 62%, melting point 174° (from dilute HCl), when overheated it explodes. At the nitration of 0.01 mole of Ib with fuming HNO_3 (22 mlit, $d = 1.52$, 2 hours at 0°) a sulfo group splits off and I ($R = R' = NO_2$) (Id) is produced, yield 84%, melting point 252° (from glacial CH_3COOH). At the bromination of 0.01 of Ib in water (200 mlit) at 50° I ($R = R' = Br$) (Ie) is received, yield 84.5%, melting point 140 to 141° (from glacial

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$\text{CH}_3\text{COOH} - \text{HCOOH}$, 3 : 2). At the heating of 0.01 mole of I with the 12%-ual aqueous solution of NaOH (120 mlit) for 2 to 2.5 hours in a water bath, HCl splits off and the corresponding (4-OH-3-5-R'-C₆H₂)₂C=CCl₂ (II) are produced in the shape of Na salts or phenolates, the aqueous solutions of which are acidified with HCl (acid) (the initial substance, the yield of II in % and the melting point in °C are presented further): Ia, 35, 210 (dissociates, from 20%-ual alcohol); Ib, 72 (salt), - ; Ic, 80 (salt), - ; Id, 73, 234 (not corrected varying, dissociates, from ethylacetate-n-C₆H₁₄); Io, 85, 163.5 to 164.5 (from 40%-ual alcohol); I (R = NO₂, R' = H), 92, 127.5 to 128.5 (from glacial CH₃COOH). The bis-Na-salt of 4,4'-dioxystilbene-3,3'-dicarboxylic acid is prepared by dehalogenation of 0.01 mole of Ib in 10 mlit of water using 10 g of Fe powder and 10 mlit of CH₃COOH (24 hours, about 100°) with a following alkalization of the filtrate with Na₂CO₃, yield 54.3%. All the melting points were corrected with the exception of those with notes.

Card 3/3

HUBACEK, J.; TROJNA, M.

Paperchromatography of the flavonol-glycoside in hops (*Humulus lupulus* L.). Coll Cz Chem 29 no.5:1259-1265 May '64.

1. Institute of Chemistry, Higher School of Agriculture,
Prague.

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81607.

Author : Trojna M., Hubacek J.

Inst :

Title : Sulfonation and Some Derivatives of β , β , β -trichloro-
 α , α -diphenyl-ethane.

Orig Pub: Chem. listy, 1958, 52, No 1, 87-94.

Abstract: Some sulfonic acids of $\text{CCl}_3\text{CH}(\text{C}_6\text{H}_5)\text{C}_6\text{H}_4\text{R}$ (I) were synthesized for the purpose of further developing the insecticidal activity of the analogs of DDT. I is formed by the action of ClSO_3H in CHCl_3 at $\sim 20^\circ\text{C}$., (R is $\text{SO}_3\text{H-p}$) (I+II); and in the absence of the solvent, $\text{CCl}_3\text{CH}(\text{C}_6\text{H}_5\text{SO}_3\text{H-p})_2$ (II) is formed. The action of 6.3% oleum at 65°C . leads to the splitting

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81607.

of HCl with the formation of $\text{CCl}=\text{C}(\text{C}_6\text{H}_4\text{SO}_3\text{H-p})$ III, and in acetic acid under the same conditions leads to II and $\text{CCl}_2\text{CH}(\text{C}_6\text{H}_4\text{SO}_3\text{H-p})$ ($\text{C}_6\text{H}_4\text{SO}_3\text{H-m}$) (IV). The following were obtained: Na-salts, sulfochlorides, amides and benzylisothiuronic salts (BS) of some acids. The structure of the acids was confirmed by the oxidative splitting to known derivatives of benzoic acid or of benzophenone. Upon mixing 6.046 moles of benzene and 3.023 moles of chloraldehyde with 1.3 liters of concentrated sulfuric acid at 17-20°C. for 3 hours, I was obtained in a 94.6% yield, m.p. 67°C. ClSO_3H was added dropwise to the solution of 0.1 moles of I in CHCl_3 at 18°C., was mixed for one hour, was poured on ice, was filtered at 80°C. and upon saturating the solu-

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G-2

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81607.

tion with NaCl, the Na salt of I-a was separated, yield 65.5%. Upon heating I-a for three hours with NaOH in alcohol, the Na salt of $\text{CCl}_2=\text{C}(\text{C}_6\text{H}_5)\text{C}_6\text{H}_4\text{SO}_3\text{H}$ (V) was obtained, yield 82.8%. I was added at 65°C. to oleum (6.3% SO_3), it was poured on ice and III was obtained, yield 21.5%, m.p. 268-269°C., there were obtained the Ba-salt (dihydrate) and Pb-salt (trihydrate), the disodium salt was obtained by mixing of the water solution of III with a saturated solution of NaCl, also by heating II with aqueous NaOH for 90 minutes, yield 82.3%. Disodium salt was synthesized by three methods: 1) From I (0.2 mole) and 380 grams of oleum in 60 ml glacial acetic acid (1 hour, 65°C.) followed by pouring onto ice, neutralization with sodium carbonate and saturation with NaCl at 60°C., yield 38.7%; 2) By

Card : 3/5

COUNTRY : CZECHOSLOVAKIA
CATEGORY : Organic Chemistry. Synthetic Organic Chemistry
ABS. JOUR. : RZKhim., No. 23 1959, No. 82277
AUTHOR : Trojna, M.; Hubacek, J.
INST. :
TITLE : Sulfonation and Some Derivatives of β,β,β -trichloro- α,α -diphenylethane
ORIG. PUB. : Collect. Czechosl. Chem. Commun., 1959, 24, No 3, 935-943
ABSTRACT : No abstract.
See RZKhim., 1958, No 24, No 81607

CARD: 1/1

TROJNA, M.; HUBACEK, J.

SCIENCE

Periodical CHEMICKE LISTY. Vol. 52, no. 1, Jan. 1958.

TROJNA, M.; HUBACEK, J. Sulfonation and some derivatives of β, β, β -trichloro- α , α -diphenylethane. p. 87.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

TROJNA, M.; HUBACEK, J.

"Some new derivatives of β, β, β -trichlor- α, α -bis-(4-oxyphenyl)-ethane. In German."

p.1162 (Sbornik Chekhoslovatskikh Khimicheskikh Rabot, Vol. 22, no. 4, Aug. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 8; August 1958

EROJNA, M.

Some new derivatives of ~~1,1,1~~-trichloro-1,1-bis-(4-hydroxyphenyl) ethane.

p. 752 (CHEMICKE LISTY) Vol. 51, no. 4, Apr. 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

TROJNA, Milan; HUBACEK, Jaromir

Quantitative determination of saccharose, raffinose, and
some reducing sugars. Kvasny prum 9 no. 6: 147-149
Je '63.

1. Katedra chemicka, Vysoka skola zemedelska, Praha.

HUBACEK, Jaromir; TROJNA, Milan

Hop tannin; flavonol glycosides in some Czechoslovak and foreign varieties. Pt. 1. Kvasny prum 10 no. 8:169-172 Ag '64.

1. Chair of Chemistry, Higher School of Agriculture, Prague.

V Sulfonation and some derivatives of β,β,β -trichloro- α,α -diphenylethane. Milan, Trojina and Jaromir Hubáček (Vysoká škola zem., Prague). Chem. listy 52, 87-94 (1958). $\text{CCl}_3\text{CHPh}_2$ (I) was sulfonated under various conditions to give ($p\text{-HO}_2\text{SC}_6\text{H}_4$) PhCHCCl_3 (II), ($p\text{-HO}_2\text{SC}_6\text{H}_4$) CPh_2 (III), ($p\text{-HO}_2\text{SC}_6\text{H}_4$) CHCCl_3 (IV), ($p\text{-HO}_2\text{SC}_6\text{H}_4$) $\text{C}(\text{CCl}_3)_2$ (V), and ($p\text{-HO}_2\text{SC}_6\text{H}_4$)($m\text{-HO}_2\text{SC}_6\text{H}_4$) $\text{C}(\text{CCl}_3)_2$ (VI). These products were characterized as Na salts (a), benzylisothiuronium salts (b), sulfochlorides (c), and sulfonamides (d). Dissolving 500 g. $\text{CCl}_3\text{CH(OH)Ph}_2$ in 472.2 g. warm C_6H_6 , cooling the soln. to 20° , adding with stirring and cooling to $17\text{--}20^\circ$ 1300 ml. H_2SO_4 , after 3 hrs. filtering off the crystals, and washing them with Na_2CO_3 and H_2O yielded 817 g. I, m. 67° (2150 cal. abs. EtOH). Dissolving 28.50 g. I in 35 ml. CHCl_3 , adding at 18° 23.3 g. ClSO_3H , stirring the mixt. 1 hr., pouring over 140 g. ice, sepg. the CHCl_3 layer, heating the aq. layer to 80° , filtering the soln., adding a hot soln. of 80 g. NaCl in 100 ml. H_2O , and filtering the deposited plates with suction gave after crystn. (240 ml. 25% AcOH): 22.55 g. IIa; IIb, m. $169\text{--}72^\circ$; IIc, m. 111° ; IId, m. 167.5° . Refluxing 20 g. IIa with 10 g. NaOH in 400 ml. EtOH 8 hrs. gave: 15 g. IIIa; IIId, m. $199\text{--}201^\circ$; IIId, m. 77.5° ; IIId, m. 157° . Adding portionwise at 65° 28.5 g. I to 314 g. fuming H_2SO_4 (contg. 6.3% free SO_3), stirring the mixt. an addnl. 20 min. and pouring over 260 g. ice gave 8.8 g. V, m. $268\text{--}9^\circ$ (20% HCl) (decompn.); Ba salt, dihydrate; Pb salt, trihydrate. Vb, m. $176.5\text{--}8.5^\circ$; Vc, m. 188° ; Vd, m. $253\text{--}4^\circ$. Di-Na salt of V (Va) was prepd. either by treating an aq. soln. of V with satd. soln. of NaCl , or by heating 1.5 hrs. 2.45 g. IVa with 9 g. NaOH in 180 ml. H_2O (yield 82.8%). Treating a soln. of 57.12 g. I in 80 ml. AcOH at 65° with 380 g. fuming H_2SO_4 (contg. 6.3% free SO_3), stirring 1 hr., pouring the mixt. over 1 kg. ice, neu-

tralizing with 35 g. Na_2CO_3 , heating to 60° , satg. with 250 g. NaCl , and crystg. the product (210 ml. H_2O) gave 37 g. IVa. IVa was also prepd. as follows: adding portionwise 14.3 g. I to 58 g. ClSO_3H at 20° , stirring the mixt. $1/2$ hr., pouring into a soln. of 80 g. NaCl in 400 ml. H_2O , extg. the soln. with Et_2O , heating the aq. layer, adding 60 g. NaCl , and recrystg. the product (H_2O) gave 5.8 g. IVa. Adding 19.4 g. IIa at 10° to 58 g. ClSO_3H , stirring the mixt. 30 min., pouring over 400 g. ice, heating the soln. with 90 g. NaCl , filtering off the crystals with suction, dissolving in 100 ml. H_2O , removing the undissolved residue with 70 ml. Et_2O , heating the aq. layer and mixing with 100 ml. hot satd. NaCl soln. gave 14.6 g. IVa Ba salt, dihydrate. From the mother liquors after the sepa. of IVa according to the 1st procedure was obtained, by way of Ba and Na salts, 35 g. VIa. M.ps. of IVb,c,d, and VIc,d are $190\text{--}1^\circ$, $191\text{--}3^\circ$, 227° (decompn.), $128\text{--}7^\circ$, $187\text{--}8^\circ$, resp. Oxidation of IIIa with alk. KMnO_4 at 50° gave 41.7% $p\text{-HO}_2\text{SC}_6\text{H}_4\text{CO}_2\text{H}$. Oxidation with 200 ml. 4% KMnO_4 of a soln. contg. 4.07 g. Vd and 4 g. NaOH in 200 ml. H_2O gave at 50° after 12 hrs. 0.6 g. $p\text{-NH}_2\text{O}_2\text{SC}_6\text{H}_4\text{CO}_2\text{H}$ (VII), and 1.92 g. ($p\text{-NH}_2\text{O}_2\text{SC}_6\text{H}_4$) CO , m. 252° (45% Me_2CO); phenylhydrazones, m. $254\text{--}5^\circ$ (30% Me_2CO). Similar oxidation of VId yielded VII, the m -isomer, and ($p\text{-NH}_2\text{O}_2\text{SC}_6\text{H}_4$)($m\text{-NH}_2\text{O}_2\text{SC}_6\text{H}_4$) CO , m. $185\text{--}6^\circ$ (10% Me_2CO); phenylhydrazones, m. $234\text{--}5^\circ$ (50% EtOH).

M. Hudlický

Distr: 4E4j/4E3d/4E2c (j)

HUBACEK, Jaromir; TROJNA, Milan

Hop tannin; flavonols in some Czechoslovak and foreign hop varieties. Pt.2. Kvasny prum 10 no.9:193-196 S '64.

1. Chair of Chemistry, Higher School of Agriculture, Prague.

DANILOS, Jozef; TROJNACKI, Zdzislaw

Granulomatous epithelioma of the ovary. Gin. polska 32 no.3:293-304
'61.

1. Z I Kliniki Położnictwa i Chorob Kobietych A.M. w Lublinie Kie-
rownik: prof. dr S. Liebhart
(OVARY neopl)
(GRANULOSA CELL TUMOR case reports)

JUROWICZ-TROJNACKA, Irena; BIEGANOWSKA, Zofia; TROJNACKI, Zdzislaw

X-ray diagnosis and clinical features of the loosening of the pelvic girdle in multiparae. Ann. univ. Lublin sec. D 15:397-407 '60.

1. Z Zakladu Radiologii Wydzialu Lekarskiego Akademii Medycznej w Lublinie Kierownik: z prof. dr med. Kazimierz Skorynski i z Katedry i I Kliniki Poloznictwa i Chorob Kobietych Wydzialu Lekarskiego Akademii Medycznej w Lublinie Kierownik: prof. dr med. Stanislaw Liebhart.

(PELVIC BONES in pregnancy) (PREGNANCY compl)

TROJNACKI, Zdzisław

A case of full-term extrauterine pregnancy. Gin. polska 32 no.6:
719-725 '61.

1. Z I Kliniki Poloznictwa i Chorob Kobiacych AM w Lublinie Kierownik:
prof. dr med. S. Liebhart.

(PREGNANCY ECTOPIC case reports)

TRONACKI, Zdzislaw

2107

2/2

7. "Contributions to the Working Action of Penicillin and Streptomycin in the Cold's Clinic," Vladimir KIKLOVSKI, pp 127-128 (Russian summary).
8. "Case of Primary Cancer of the Ovary," Zdzislaw TRONACKI and Michal GONIT of the First Clinic of Gynecology and Female Diseases of the Medical Academy at Lublin (Director: Prof. Dr. S. LUBINSKI, MD) and of the Pathological Anatomy Research Office (Zdzislaw Mielczewski, MD) of the Medical Academy at Lublin (Director: Prof. S. MURKOWSKI, MD), pp 198-201 (Russian summary).

Wladimir Kiklovski, Encephalograph, Vol 16, Ser 2, No 4, 1962.

3. TRONACKI, pp 127-128. (English summary).

8

TROJNACKI, Zdzislaw; KLONOWSKI, Henryk; BOKINIEC, Michal

Application of hydrocortisone into the uterine cavity as a therapeutic method in post-inflammatory obstruction of the fallopian tubes. Ginek. Pol. 33 no.1:137-140 '62.

1. Z I Kliniki Poloznictwa i Chorob Kobietych AM w Lublinie Kierownik: prof. dr S. Liebhart.

(FALLOPIAN TUBES dis) (HYDROCORTISONE ther)

TROJNACKI, Zdzislaw; WOLANSKI, Zbigniew; KLONOWSKI, Henryk

Treatment of subacute and chronic adnexitis with Enkorton
(prednisone). Ginek. pol. 34 no.4:407-502 '63.

1. Z I Kliniki Położnictwa i Chorob Kobietych AM w Lublinie
Kierownik: prof. dr med. S. Liebhart.
(PREDNISONE) (ADNEXITIS)

POLAND

TROJNACKI, Zdzislaw and KLONOWSKI, Henryk, First Clinic of Obstetrics and Gynecology (I Klinika Poloznictwa i Chorob Kobietych), AM [Akademia Medyczna, Medical Academy] in Lublin (Director: Prof. Dr. med. S. LIEBHART)

"Results of Local Application of Hydrocortisone in Inflammations of the Uterine Appendages."

Warsaw-Krakow, Przegląd Lekarski, Vol 19, Ser II, No 2, 28 Feb 63, pp 153-155.

Abstract: [Authors' English summary modified] Authors obtained good results treating patients with inflammation of the endometrium and uterine appendages by local administration of hydrocortisone solution together with antibiotics of wide-range action. Solution was introduced into the region of the appendages by puncture of the lateral fornix of the vagina, starting with 150 ml, and gradually reducing the dose. ACTH, Vitamin C, PP, and Rutinoscorbin were given together with the cortisone every fifth day. There are 42 references, of which 18 are Polish, 15 distinctly Western, and 9 in the German language.

1/1

DANILOS, Jozef; TROJNACKI, Zdzislaw

Clinical contribution to ovarian thecoma. Pat. pol. 14 no.1:
127-134 '63.

1. Z I Kliniki Poloznictwa i Chorob Kobietych AM w Lublinie
Kierownik: prof. dr med. St. Liebhart.
(THECA CELL TUMOR) (OVARIAN NEOPLASMS)

TROJNACKI, Zdzislaw

Ruptures of the uterus during pregnancy and parturition with a description of cases observed in the clinic. Ann.Univ.Lublin; sec.D 14:219-231 '59.

1. Z Katedry I Kliniki Poloznictwa i Chorob Kobiacych Wydzialu Lekarskiego Akademii Medycznej w Lublinie. Kierownik: prof. dr.med. Stanislaw Liebhart.

(UTERINE RUPTURE in pregn)

(PREGNANCY compl)

(LABOR compl)

TROJNACKI, Zdzislaw; SLAWINSKI, Ryszard

The usefulness of simultaneous abdominal and vaginal approach
in the surgical treatment of subserous and submucous myoma
originating from the vagina. Ginek. Pol. 36 no.9:1045-1046
S '65.

1. Z I Kliniki Położnictwa i Chorob Kobietych AM w Lublinie
(Kierownik: prof. dr. med. S. Liebhart).

68
ACCESSION NR: AP4011795

P/0045/63/024/006/0801/0808

AUTHOR: Trojnar, E.

TITLE: On the paramagnetic effect in superconductors in transversal magnetic field

SOURCE: Acta physica polonica, v. 24, no. 6, 1963, 801-808

TOPIC TAGS: paramagnetic effect, superconductor, transverse magnetic field, superconducting contacts, non-fading current, current density, minimum current

ABSTRACT: Reviewing the previous work on the subject, the author concludes that the paramagnetic effect has been investigated only on cylindrical samples placed in a longitudinal magnetic field, while the existence of this effect in the field perpendicular to the axis of the sample has not been verified. While Keissner's explanations would not lead one to expect it in this transverse field, the author's measurements show that it appears there as well. The methods of measurement are described in some detail. The results prove that in both external fields the paramagnetic effect is caused by the circular currents. The minimum current for the appearance of the effect (as in the longitudinal field) was found to be 1.2

Card

1/3

ACCESSION NR: AP4011795

amperes for tin. A longitudinal gap in the sample prevents the appearance of the effect in the longitudinal magnetic field, but does not change the value of the magnetic moment of the sample in the transverse field, where the effect will fail to appear only when the sample is composed of thin layers located along the field and not having superconducting contacts. In case of perpendicular orientation of the plates to the field, or of the existence of superconducting contacts among them, the full paramagnetic effect will appear because then the non-fading currents can circulate in the plane perpendicular to the magnetic field. Still an enigma is why the determined current is needed to produce the paramagnetic effect in both fields, and why just the current and not the current density, as would appear more natural.

"The author wishes to thank Professor N. E. Alexeevskii and Professor B. Makiej for helpful discussion."

Original has 1 diagram, 7 graphs, 1 table and 1 major equation.

ASSOCIATION: Zaklad Niskich Temperatur IF PAN, ^{Wroclaw} (Low-Temperature Laboratory,
Institute of Physics of the Polish Academy of Sciences)

Card 2/3

ACCESSION NR: AP4011795

SUBMITTED: 20Jun63

SUB CODE: EM

DATE ACQ: 04Feb64

NO REF SOV: 000

ENCL: 00

OTHER: 005

Card

3/3

TROJNAR, E.

On the paramagnetic effect in superconductors in transversal magnetic field. Acta physica Pol 24 no.6:801-808 D '63.

1. Institute of Physics, Polish Academy of Sciences, Low Temperature Laboratory, Wroclaw.

BAZAN, Ch. [Bazan, Cz]; SZYMASZEK, Ye. [Szymaszek, E.]; TROJNAR, re. [Trojnar, E.].

Deviation from the Kohler rule of indium. Acta physica Pol 25
no.3:503-505 Mar '64.

1. Low Temperature Laboratory, Polish Academy of Sciences, Wrocław.

1/20/57
~~1/20/57~~
KOSMIDERSKI, Szymon; GAJEWSKA-GOLANSKA, Urszula; JARCZIKOWA, Janina; TROJNAR,
Tadeusz

Dysproteinemias in granulocytic leukemias. Polski tygod. lek. 12 no.35:
1347-1350 25 Aug 57.

1. Z Oddziału Hematologicznego Wojewodzkiego Szpitala Specjalistycznego
w Katowicach; kierownik Kliniki: Sz. Kosmiderski; dyrektor Szpitala:
B. Karolczak.

(LEUKEMIA, blood in,
protein defic. (Pol))

(BLOOD PROTEINS, deficiency,
in leukemia (Pol))

TROJNAR, Tadeusz

Biochemistry of protein and lipid bodies in a case of Rustitskii-Kahler's disease. Polskie arch. med. wewn. 29 no.4:439-442 1959.

1. Z Oddziału Hematologicznego Wojewodzkiego Szpitala Specjalistycznego w Katowicach. Kierownik: dr med. S. Kosmiderski.
(MYELOMA PLASMA CELL, blood) (BLOOD PROTEINS)
(LIPIDS, blood)

CA 10

Thiourea synthesis. Stanislaw Trojak. *Przegląd Chem.* 6, 130-11(1948).—The method based on Ger. 74,800 [from CNNH_2 and $(\text{NH}_4)_2\text{S}$] was found unsuitable because of the low yield (50%) and the high price of FeS . Substituting H_2S by CaS increased the yield of thiourea (approx. 80%). The following procedure was adopted: CaCN_2 (150 g.) was hydrolyzed with H_2O in a stream of CO_2 , 5 g. S added, then 100 g. CaS , maintaining the reaction temp. below 30° , then raising it to 50° , then 100 g. NH_4HCO_3 was added with the temp. kept at $70-80^\circ$ 4 hrs. Satisfactory results were obtained substituting CaS by Na_2S (no exptl. details are given). A. Sporyński

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

GROUP	SECTION	SUBSECTION	DETAILS
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
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6	6	6	6
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94	94	94	94
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96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

TROK, A.

Committees of public inspection are in action. Avt.transp. 38 no.10:
47 O '60. (MIRA 13:10)

1. Nachal'nik Gosavtoinspektsii Upravleniya vnutrennikh del Permskogo
oblispolkoma.
(Perm Province--Transportation, Automotive)

ROJKO, Antal, dr.; TROKAN, Etelka, dr.

Similarities between patellar deformities in habitual patellar dislocation and Sinding-Larsen-Johannson disease. Magy radiol. 13 no.6: 359-362 N '61.

1. Kozlemený az Országos Rheuma- és Furdougýi Intezet (igazgato: Farkas Karoly dr. az orvostudományok doktora) I Orthopaed osztalyarol (foorvos: Rojko Antal dr.)

(KNEE dis)

FALTUS, Frantisek, prof. inz. dr. DrSc. TROKAN Jozef, prof.
inz. dr.

Meeting of the Permanent Committee of the International
Association for Bridge and Structural Engineering. Inz
stavby 12 no. 2: 84-86 F '64.

HAVELKA, Karol, prof., inz.dr.; TROKAN, Jozef, prof., inz. dr.; ZVARA, Jozef,
doc., inz.

Induction of static quantity functions in calculation of
bridge slabs. Inz stavby 11 no.10:363-373 0 '63.

1. Slovenska vysoka skola technicka, Bratislava, Katedra
betonovych konstrukcii a mostov.

TROKAN, J., prof., inz.dr.; BUCI, B., inz.

Development of assembled bridges with small span. Inz stavby
11 no.10:389-391 0 '63.

1. Slovenska vysoká škola technická, Bratislava, Katedra
betonových konstrukcií a mostov.

TROKAN, Jozef, prof., dr. inz.

Twenty-five years of the Faculty of Building of the Slovak
Higher School of Technology in Bratislava. Inz stavby 11
no.10:361-362 0 '63.

1. Rektor Slovenskej vysokej školy technickej, Bratislava.

TROKAN, Jozef, prof. inz. dr.

Some notes and information on the Congress of the International Association for Bridge and Structural Engineering. Stav cas 13 no.2:116-117 '65.

1. Slovak Higher School of Technology, Bratislava.

TROKAN, J.

"New views in determining profiles for bridges."

p. 231 (Stavebnicky Casopis) Vol. 5, no. 4, 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

L 01149-66 ENT(m)/EPF(c)/EMP(j) RM

ACCESSION NR: AP5022000/

UR/0286/65/000/014/0076/0076
678.043.044

AUTHOR: Boguslavskiy, D. B.; Borodushkina, Kh. N.; Malinovskiy, M. S.;
Kolenakaya, A. I.; Kupriyanova, O. N.; Romanov, A. S.; Saponov, V. A.; Trokay,
S. P.; Chavchich, T. A.; Yurilina, L. M.; Kovaleva, V. F.

TITLE: A method for vulcanizing rubber. Class 39, No. 172984

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 76

TOPIC TAGS: vulcanization, rubber, polymer, polyester plastic

ABSTRACT: This Author's Certificate introduces a method for vulcanizing rubber by using alkylphenolformaldehyde resins in the presence of chloride-containing polymer accelerators. A wider selection of accelerators is provided by using polyester resins--products of condensation of glycerine α -monohydrochloride with phthalic and/or maleic anhydride.

ASSOCIATION: none

SUBMITTED: 10 Nov 63

NO REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: NT

Cord 1/1. DP

S/865/62/002/000/028/042
D405/D301

AUTHORS: Rokotova, N.A., Kucherenko, T.M., Pavlov, V.N. and Trokhachev, A.I.

TITLE: Effect of sleep loss on some aspects of higher nervous activity of humans

SOURCE: Problemy kosmicheskoy biologii. v. 2. Ed. by N. Sisakyan and V. Yazdovskiy. Moscow, Izd-vo AN SSSR, 1962, 273-286

TEXT: The authors investigated the effect of a sleepless night on the task of learning a working program with switches. Four young male adults (volunteers) participated in the experiments; they were awake for 24 hours (6 to 10 times, with intervals of a few days between each experiment). The subjects were placed in a separate room, around a table with four switches. The experiment involved switching off a signal lamp by means of one of the switches. The signal lamp was switched on by the experimentator in accordance with a pre-determined program. The answers of the subject are eval-

Card 1/3

Effect of sleep loss ...

S/865/62/002/000/028/042
D405/D301

uated by the time it takes to solve the problem, by the ratio of number of answers to number of signals, and by the agreement between the frequency of selecting a particular switch and the frequency given by the programme. Each experiment with the signal lamp lasted 40-60 minutes. The programs used were of two types: rigid and free. The subjects came to the experiments after a normal day of studies. The tests with the signal lamp were conducted in the evening and in the following morning (at 7 o'clock). Between the two program tests the subjects were continuously busy with observations, making entries into copybooks (each minute), etc. The overall results of the dynamics of learning of the four subjects are represented in the form of curves, characterizing the rate of change of the average time required for the solution, the number of errors, and the probability of choice of switches with increasing number of trials. The sleepless night affected only the time required for the solution of the problem in case of the rigid program, whereas the accuracy was not affected. In case of the free (stochastic) program, the quality suffered also, i.e. the problems remained unsolved, although some progress towards a solution was noted. Conclusions: A method was

Card 2/3

Effect of sleep loss ...

S/865/62/002/000/028/042
D405/D301

developed for the study of the functions of the higher nervous system of adults; this method permits the analyzing of both determinate and stochastic forms of conditional reflex relations. Two types of programs were used: rigid (stereotype with probabilistic elements), and free (a stochastic model with 4 choices). The effect of sleep loss on both forms of learning was investigated. Twenty four hours of sleeplessness led to a slowing down in learning by the rigid program and to incomplete learning by the free program. There are 4 figures and 2 tables.

Card 3/3

TROKHACHEV, G.-V.

h0764

S/120/62/000/004/045/047
EO39/E420

24.6739

AUTHORS:

Sokolovskiy, V.V., Radkevich, I.A., Gol'din, L.L.,
Kleopov, I.F., Kulakov, F.M., Luzin, V.N.,
Mozalevskiy, I.A., Okorokov, I.S., ~~Talyzin, A.N.~~,
Trokhachev, G.V.

TITLE:

The effect of changes in the regime of the proton
synchrotron supply systems on the magnetic
characteristics of the blocks

PERIODICAL: Priory i tekhnika eksperimenta, no.4, 1962, 240-244

TEXT: Measurements are made of the effect on the field and
gradient in the C and X-blocks at a level of 90 gauss when the
final smoothing condensers are either disconnected or connected
symmetrically or non-symmetrically; in addition, the case when
the final smoothing condensers are in circuit but the primary
smoothing condensers are reduced to one quarter of their usual
value is examined. The effect of a shunting thyatron and
resistance is also investigated. Changes in the value of the
field caused by any of the above do not exceed $\pm 0.6\%$ while the
difference between blocks is about $\pm 1\%$. The effect of these
Card 1/2

The effect of changes ...

S/120/62/000/004/045/047
E039/E420

circuit changes on the rate of growth of the field covers the range +3.2 to -8.3% and for the difference between blocks +5.2 to -6.9%. Changes of the working range without altering the circuit produce significantly smaller effects than are produced by circuit changes, e.g. changes in the average field of separate blocks are 0.2 to 0.3% while the difference between their fields changes only by 0.02 to 0.05%. The introduction of an auxiliary control on the value of the residual field noticeably increases the accuracy of the results, i.e. error reduced to less than a half its previous value. There are 3 figures and 4 tables. f

ASSOCIATIONS: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)
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SUBMITTED: April 11, 1962
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TROKHACHEV, G. V.

24.6800

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S/120/62/000/004/033/047
E192/E382

AUTHORS: Alekseyev, A.G., Gorolkin, A.S., Mozalevskiy, I.A.,
Mozin, I.V., Tarasov, D.I. and Trokhachev, G.V.

TITLE: The use of permalloy pick-ups for mass magnetic
measurements on the proton synchrotron

PERIODICAL: Priory i tekhnika eksperimenta, no. 4, 1962,
179 - 184

TEXT: Measurement of the relative magnetic fields at
injection fields of $H = 90$ Oe is effected by means of permalloy
pick-ups with magnetizing coils (Giordano, S., Green, G.K. and
Rogers, E.J. Rev. Scient. Instrum., 1953, 24, 848). The
magnetizing coil is supplied with DC and is connected in such a
way that the direction of the magnetic field H_K of the coil
and that of the measured field are in opposition. When the
magnetic field reaches the value H_K , a signal coil of the
pick-up produces a voltage pulse. The field H_1 at the point
where the pick-up is situated is evaluated from the formula:
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$$H_i = H_{10} + \dot{H}_{it} \cdot \Delta T_i$$

where H_{10} is the field due to the magnetizing coil,

\dot{H}_{it} is the rate of rise of the field at the point i , and

ΔT_i is the time interval between the pulses obtained from the reference and the measuring pick-ups.

The quantity \dot{H}_i can also be expressed as

$\dot{H}_i = k_i [I_i + (\Delta I / \Delta t)_i \Delta T_i]$, where k is a constant which is determined from $H = kI$ and I is the current. The equipment for the measurement of the field in a block (unit) consists of 19 pick-ups which were situated along the arc of an equilibrium orbit at distances of 100 mm from each other. A pick-up has the form shown in Fig. 2 and consists of a permalloy strip 5 having transverse dimensions of 10 x 100 mm and correcting rods 2 made of the same material; the pick-up also contains a magnetizing coil 3 and an induction winding 5. For measuring the rate of rise of the magnetic field the magnetizing current of the

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pick-ups is varied by $\pm 10\%$, which corresponds to $\Delta t_1 = 600 \mu s$.

The actual measuring equipment was connected to the pick-ups by means of high-frequency cables. The magnetizing coils of the pick-ups were connected in series and supplied with a current of 150 mA, stabilized to within $\pm 0.02\%$. The current was measured by means of a potentiometer, the error of measurement being 0.02%. Since the width of the pulse produced by the pick-ups was much greater than that required for achieving the desired accuracy of the measurements, the pulses were suitably shaped by means of shaping circuits. The equipment had to work in a hall, where the perturbing electromagnetic fields were comparatively strong, the spectral maxima occurring at 50 c.p.s. and 20 - 30 kc/s. The low-frequency interference was eliminated by suitably choosing the intermediate stages of the forming circuits, whilst the high-frequency noise was suppressed by means of an RC filter. The equipment could measure time with an error of $4 \mu s$ and the current with an error of 0.02%, so that the maximum measurement error did not exceed 0.1%. There are 4 figures.

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The use of permalloy pick-ups ... S/120/62/000/004/033/047
E192/E382

ASSOCIATION: Nauchno-issledovatel'skiy institut elektro-
fizicheskoy apparatury GKAE (Scientific
Research Institute of Electrophysical
Equipment, GKAE)

SUBMITTED: April 10, 1962

Fig. 2:



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E140/E420

AUTHORS: Alekseyev, A.G., Veselov, M.D., Mozalevskiy, I.A.,
Rozhdestvenskiy, B.V., Trokhachev, G.V.

TITLE: Magnetic measurements at the factory on the
electromagnet blocks of the proton synchrotron

PERIODICAL: Pribery i tekhnika eksperimenta, no.4, 1962, 172-178

TEXT: To obtain more precise experimental data than were
available from models and to check the production, factory
measurements were carried out on the electromagnet blocks in
groups of three in conditions approximating to the working cycle.
Reproducibility of the wavefront and maximum current in the test
set-up was about 2%. In the first measurements, two C-blocks
(focusing and defocusing) and one X-block were studied for the
basic characteristics of the magnetic field - the distribution of
induction and gradient in azimuth, nonlinearity, decay index as
a function of induction, etc. The remaining blocks were only
subjected to calibration tests, which permitted the scatter in
mean magnetic field characteristics to be determined and
defective blocks to be rejected. The article describes the
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Magnetic measurements ...

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equipment and gives typical results on precision of measurement and scatter of characteristics measured: e.g. the mean square deviation of the dynamic component of the field at 55 gauss was 0.26%, at 2500 gauss 0.1% and at 8550 gauss 0.24%. Control measurements on the assembled electromagnet showed that the effect of adjacent blocks (excluding X-blocks) did not produce a significant change in the factory measurements. There are 16 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut elektrofizicheskoy apparatury GKAE (Scientific Research Institute for Electrophysical Apparatus GKAE)

SUBMITTED: April 10, 1962

Card 2/2

246730

S/120/62/000/004/034/047
E140/E420

AUTHORS: Talyzin, A.N., Gol'din, L.L., Trokhachev, G.V.,
Radkevich, I.A., Mozalevskiy, I.A., Sokolovskiy, V.V.,
Kukavadze, G.M., Belozeroval, L.A., Borisov, V.S.,
Bysheva, G.K., Veselov, M.D., Goryachev, Yu.M.

TITLE: Investigation and correction of the magnetic
characteristics of the proton synchrotron C-blocks at
small fields

PERIODICAL: Pribery i tekhnika eksperimenta, no.4, 1962, 184-192

TEXT: Comparative measurements are made on the C-blocks in the
residual field (~ 35 Oe) the injection field (87 Oe) and the
field at the beginning of the acceleration cycle (117 Oe). The
iron for the magnet blocks was not pre-selected. This had no
substantial effect on differences in the dynamic characteristics
of the C-blocks, but the differences in residual field
constituted 4.25% on the average and reached up to 10%.
The mean-square deviation of the magnetic induction was 4.25%,
and 1.4% in the injection field, thus exceeding by far the allowable
tolerances. The variations were compensated by shunt resistances
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JB

Investigation and correction ...

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E140/E420

and by changing the order of the blocks. The present article is concerned with the measurement of the magnetic field intensity and its gradient in the residual field, the compensation by resistances connected across compensation windings, compensation of C-blocks at injection, with investigation of the dynamic characteristics. The equilibrium orbit in the synchrotron has not yet been studied in detail but it is found that either as a result of these corrections or the arrangement of the blocks, the loss of particles is fairly small. There are 7 figures and 1 table. ✓

ASSOCIATIONS: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental Physics GKAE)
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SUBMITTED: March 31, 1962

Card 2/2

BLOKH, A.M.; KOCHENOV, A.V.; GINZBURG, A.I., glavnyy red.; APEL'TSIN, F.R., red.;
GRIGOR'YEV, V.M., red.; POLYAKOV, M.V., red.; RODIONOV, G.G., red.;
STEPANOV, I.S., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.;
CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V.,
red.; EYGELES, M.A., red.

[Impurity elements in bone phosphate of fossil fishes.] Elementy-
primesi v kostnom fosfate iskopaemykh ryb. Moskva, Nedra, 1964.

106 p. (Geologiya mestorozhdenii redkikh elementov, no.24).

(MIRA 19:1)

YEREMIN, Yu.V. (Novosibirsk); TROKHAN, A.M. (Novosibirsk)

Measuring the velocity of plasma streams. PMTF no.2:86-87 Kr-Ap '65.
(MIRA 18:7)